

FORM PTO-1449 LIST OF PATENTS AND OTHER ITEMS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	ATTY. DOCKET NO. 238/298	SERIAL NO. 09/374,704
	APPLICANT: Peter B. Dervan et al.	
	FILING DATE: August 12, 1999	GROUP: 1843 1635

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
JE	AA	5,578,444	11/26/96	Edwards et al.	435	6	12/20/93

FOREIGN PATENT DOCUMENTS								
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
							YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)		
JE	AB	Akiyama et al., "Microscopic DNA Flexibility Analysis," <u>J. Biol. Chem.</u> 271(46):29126-29135 (1996)
JE	AC	Akiyama et al., "Structural Analysis of DNA Bending Induced by Tethered Triple Helix Forming Oligonucleotides," <u>Biochemistry</u> 36:2307-2315 (1997)
JE	AD	Akiyama et al., "The design of an agent to bend DNA," <u>Proc. Natl. Acad. Sci.</u> 93:12122-12127 (1996)
JE	AE	Alberts et al., eds., <u>Molecular Biology of The Cell</u> , 3 rd ed. Garland Publishing, NY (1994)
JE	AF	Bailly et al., "Effects of Base Substitutions on the Binding of a DNA-bending Protein," <u>J. Molecular Biology</u> 253:1-7 (1995)
JE	AG	Baird and Dervan, "Solid Phase Synthesis of Polyamides Containing Imidazole and Pyrrole Amino Acids," <u>J. Am. Chem. Soc.</u> 118:6141-6146 (1996)
JE	AH	Barcelo et al., "Removal of DNA Curving by DNA Ligands: Gel Electrophoresis Study," <u>Biochemistry</u> 30:4863-4873 (1991)
JE	AI	Barlos et al., "2-Chlorotriyl chloride resin," <u>Int. J. Peptide Protein Res.</u> 37:513-520 (1991)
JE	AJ	Bloomfield et al., "Conformational statistics E. Wormlike Chains," <u>Physical Chemistry of Nucleic Acids</u> pp. 159-166 (1974)
JE	AK	Bolshoy et al., "Curved DNA without A-A: Experimental estimation of all 16 DNA wedge angles," <u>Proc. Natl. Acad. Sci.</u> 88:2312-2316 (1991)
JE	AL	Bond et al., "Conformational Transitions of Duplex and Triplex Nucleic Acid helices: Thermodynamic Analysis of Effects of Salt Concentration on Stability Using Preferential Interaction Coefficients," <u>Biophysical Journal</u> 67:825-836 (1994)
JE	AM	Brenowitz et al., "Quantitative Dnase Footprint Titration: A Method for Studying Protein-DNA Interactions" <u>Methods Enzymol.</u> 130:132-181 (1986)
JE	AN	Brenowitz et al., "Footprint" titrations yield valid thermodynamic isotherms" <u>Proc. Natl. Acad. Sci. USA</u> 83:8462-8466 (1986)
JE	AO	Bruice et al., "Rational design of substituted tripyrrole peptides that complex with DNA by both selective minor-groove binding and electrostatic interaction with the phosphate backbone," <u>Proc. Natl. Acad. Sci. USA</u> 89:1700-1704 (1992)
JE	AP	Bruice et al., "A Microgonotropen Branched Decaaza Decabutylamine and its DNA and DNA/Transcription Factor Interactions," <u>Bioorg. Med. Chem.</u> 5:685-692 (1997)
JE	AQ	Chen and Lown, "A New DNA Minor Groove Binding Motif: Cross-Linked Lexitropsins," <u>J. Am. Chem. Soc.</u> 116:6995-7005 (1994)

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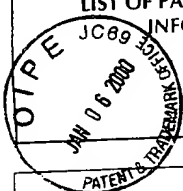
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AR	Chen et al., "Binding of two distamycin A molecules in the minor groove of an alternating B-DNA duplex" <u>M. Struct. Biol. Nat.</u> 1(3):169-175 (1994)
AS	Chiang et al., "Targeting E2F1-DNA complexes with microgonotropen DNA binding agents," <u>Proc. Natl. Acad. Sci. USA</u> 94:2811-2816 (1997)
AT	Cho et al., "Cyclic polyamides for recognition in the minor groove of DNA," <u>Proc. Natl. Acad. Sci. USA</u> 92:10389-10392 (1995)
AU	de Clairac et al., "NMR Characterization of Hairpin Polyamide Complexes with the Minor Groove of DNA," <u>J. Am. Chem. Soc.</u> 119:7909-7916 (1997)
AV	Deutscher, ed., "Guide to Protein Purification," <u>Methods in Enzymology</u> Vol 182, Academic Press, SD CA (1989)
AW	Dlakic et al., "The Organic Crystallizing Agent 2-Methyl-2,4-pentanediol Reduces DNA Curvature by means of Structural changes in A-tracts," <u>J. Biological Chem.</u> 271:17911-17919 (1996)
AX	Duval-Valentin et al., "Specific inhibition of transcription by triple helix-forming oligonucleotides," <u>Proc. Natl. Acad. Sci.</u> 89:504-508 (1992)
AY	Dwyer et al., "Structural Analysis of Covalent Peptide Dimers, Bis(pyridine-2-carboxamidonetropsin)(CH ₂) ₃₋₆ , in Complex with 5'-TGACT-3' Sites by Two-Dimensional NMR," <u>J. Am. Chem. Soc.</u> 115:9900-9906 (1993)
AZ	Ellenberger et al., "The GCN4 Basic Region Leucine Zipper Binds DNA as a Dimer of uninterrupted α helices: Crystal Structure of the protein-DNA Complex," <u>Cell</u> 71:1223-1237 (1992)
BA	Feng et al., "Hin Recombinase Bound to DNA: The Origin of Specificity in Major and Minor Groove Interactions," <u>Science</u> 263:348-355 (1994)
BB	Fenley et al., "Electrostatic Persistence Length of a Smoothly Bending Polyion Computed by Numerical Counterion Condensation Theory," <u>J. Physical Chemistry</u> 96:3963-3969 (1992)
BC	Freshney, <u>Culture of Animal Cells: A Manual of Basic Technique</u> , 2 nd ed. Alan R. Liss, Inc. NY NY (1987)
BD	Gehring et al., "Homeodomain Proteins," <u>Annu. Rev. Biochem.</u> 63:487-526 (1994)
BE	Gehring et al., "Homeodomain-DNA Recognition," <u>Cell</u> 78:211-223 (1994)
BF	Geierstanger et al., "Design of a G-C - Specific DNA Minor Groove-Binding Peptide," <u>Science</u> 266:646-650 (1994)
BG	Geierstanger et al., "Structural and Dynamic Characterization of the Heterodimeric and Homodimeric Complexes of Distamycin and 1-Methylimidazole-2-carboxamide-Netropsin Bound to the Minor Groove of DNA," <u>Biochemistry</u> 33:3055-3062 (1994)
BH	Geierstanger et al., "NMR Characterization of a Heterocomplex Formed by Distamycin and Its Analog 2-ImD with d(CGCAAGTTGGC): d(GCCAACTTGCG): Preference for the 1:1:1 2-ImD:Dst:DNA Complex over the 2:1 2-ImD:DNA and the 2:1 Dst:DNA Complexes," <u>J. Am. Chem. Soc.</u> 115:4474-4482 (1993)
BI	Gennaro (editor), <u>Remington's Pharmaceutical Sciences</u> (1990) (TABLE OF CONTENTS ONLY)
BJ	Goeddel, ed. "Gene Expression Technology," <u>Methods in Enzymology</u> Vol 185, Academic Press, SD CA (1991)
BK	Gottesfeld et al., "Regulation of gene expression by small molecules," <u>Nature</u> 387:202-205 (1997)
BL	Graham and Prevec, "Ch. 11 - Manipulation of Adenovirus Vectors," in <u>Methods in Molecular Biology, Volume 7: Gene Transfer and Expression Protocols</u> , edited by E.J. Murray, The Humana Press, Inc., Clifton, N.J., pp. 109-128 (1991)

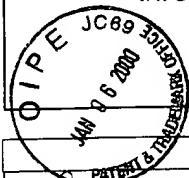
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

JE	BM	Hertzberg and Dervan, "Cleavage of DNA with Methidiumpropyl-EDTA-Iron(II): Reaction Conditions and Product Analyses," <u>Biochemistry</u> 23:3934-3945 (1984)
JE	BN	Ho et al., "Specific inhibition of formation of transcription complexes by a calicheamicin oligosaccharide: A paradigm for the development of transcriptional antagonists," <u>Proc. Natl. Acad. Sci.</u> 91:9203-9207 (1994)
JE	BO	Hope et al., "Functional Dissection of a Eukaryotic Transcriptional Activator Protein, GCN4 of Yeast," <u>Cell</u> 46:885-894 (1986)
JE	BP	Hurst, "Transcription Factors 1: bZIP proteins," <u>Protein Profile</u> 2:105-168 (1995)
JE	BQ	Iverson and Dervan, "Piperidine specific DNA chemical sequencing reaction," <u>Nucleic Acids Research</u> 14:7823-7830 (1987)
JE	BR	Johnston et al., "Autoradiography using storage phosphor technology," <u>Electrophoresis</u> 11:355-360 (1990)
JE	BS	Jones et al., "Synthesis and Binding Properties of Pyrimidine Oligodeoxynucleoside Analogs Containing Neutral Phosphodiester Replacements: The Formacetal and 3'-Thioformacetal Internucleoside Linkages," <u>J. Org. Chem.</u> 58:2983-2991 (1993)
JE	BT	Kelly et al., "Binding site size limit of the 2:1 pyrrole-imidazole polyamide-DNA motif," <u>Proc. Natl. Acad. Sci. USA</u> 93:6981-6985 (1996)
JE	BU	Kielkopf et al., "Structural basis for G-C recognition in the DNA minor groove," <u>Nature Structural Biology</u> 5(2):104-109 (1998)
JE	BV	Kim et al., "Crystal structure of a yeast TBP/TATA-box complex," <u>Nature</u> 365:512-520 (1993)
JE	BW	Konig et al., "The X-ray Structure of the GCN4-bZIP Bound to ATF/CREB Site DNA Shows the Complex Depends on DNA Flexibility," <u>J. Mol. Biol.</u> 233:139-154 (1993)
JE	BX	Larsson et al., "DAPI Staining of DNA: Effect of Change in Charge, Flexibility, and Contour Length on Orientational Dynamics and Mobility of the DNA during Agarose Gel Electrophoresis," <u>J. Physical Chemistry</u> 100:3252-3263 (1996)
JE	BY	Lewin, "Interpreting the genetic code," <u>Genes VI</u> pp. 213-215 (1997)
JE	BZ	Lewin, "Promoters for RNA polymerase II have short sequence elements," <u>Genes VI</u> pp. 831-835 (1997)
JE	CA	Liberles et al., "Design of artificial sequence-specific DNA bending ligands," <u>Proc. Natl. Acad. Sci.</u> 93:9510-9514 (1996)
JE	CB	Liu et al., "Sequence-selective carbohydrate-DNA interaction: Dimeric and monomeric forms of the calicheamicin oligosaccharide interfere with transcription factor function," <u>Proc. Natl. Acad. Sci.</u> 93:940-944 (1996)
JE	CC	Maher et al., "Analysis of Promoter-Specific Repression by Triple-Helical DNA Complexes in a Eukaryotic Cell-Free Transcription System," <u>Biochemistry</u> 31:70-81 (1992)
JE	CD	Maher et al., "Kinetic Analysis of Oligodeoxyribonucleotide-Directed Triple-Helix Formation on DNA," <u>Biochemistry</u> 29:8820-8826 (1990)
JE	CE	Manning, "Breathing and Bending Fluctuations in DNA Modeled by an Open-Base-Pair Kink Coupled to Axial Compression," <u>Biopolymers</u> 22:689-729 (1983)
JE	CF	Maxam et al., Nucleic Acids Part I: "Sequencing End-Labeled DNA with Base-Specific Chemical Cleavages," <u>Methods Enzymol Vol</u> 65:499-560 (1980)
JE	CG	McCarthy et al., "Detection of an unusual distortion in A-tract DNA using KMnO ₄ : effect of temperature and distamycin on the altered conformation," <u>Nucleic Acids Research</u> 19:3421-3429 (1991)
JE	CH	McKnight et al., eds., "Dangerous Liaisons: Fos and Jun, Oncogenic Transcription Factors," & "Yeast GCN4 Transcriptional Activator Protein," <u>Transcriptional Regulation</u> pp.797-859 (1992)

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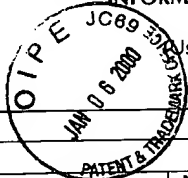
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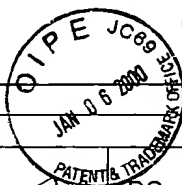


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JE	CI	Michael A. Innis et al., <u>PCR Protocols: A Guide to Methods and Applications</u> , edited by Michael A. Innis et al., Academic Press, San Diego (1990) (TABLE OF CONTENTS ONLY)
JE	CJ	Moser and Dervan, "Sequence-Specific Cleavage of Double Helical DNA by Triple Helix Formation," <u>Science</u> 238:645-650 (1987)
JE	CK	Mrksich and Dervan, "Antiparallel Side-by-Side Heterodimer for Sequence-Specific Recognition in the Minor Groove of DNA by a Distamycin/1-Methylimidazole-2-carboxamide-netropsin Pair," <u>J. Am. Chem. Soc.</u> 115:2572-2576 (1993)
JE	CL	Mrksich and Dervan, "Design of a Covalent Peptide Heterodimer of Sequence-Specific Recognition in the Minor Groove of Double-Helix DNA," <u>J. Am. Chem. Soc.</u> 116:3663-3664 (1994)
JE	CM	Mrksich and Dervan, "Enhanced Sequence Specific Recognition in the Minor Groove of DNA by Covalent Peptide Dimers: Bis(pyridine-2-carboxamidonetropsin)(CH ₂) ₃₋₆ ," <u>J. Am. Chem. Soc.</u> 115:9892-9899 (1993)
JE	CN	Mrksich and Dervan, "Recognition in the Minor Groove of DNA at 5'-(A,T)GCGC(A,T)-3' by a Four Ring Tripeptide Dimer. Reversal of the Specificity of the Natural Product Distamycin," <u>J. Am. Chem. Soc.</u> 117:3325-3332 (1995)
JE	CO	Mrksich et al., "Antiparallel side-by-side dimeric motif for sequence-specific recognition in the minor groove of DNA by the designed peptide 1-methylimidazole-2-carboxamide netropsin," <u>Proc. Natl. Acad. Sci. USA</u> 89:7586-7590 (1992)
JE	CP	Mrksich et al., "Hairpin Peptide Motif. A New Class of Oligopeptides for Sequence-Specific Recognition in the Minor Groove of Double-Helical DNA," <u>J. Am. Chem. Soc.</u> 116:7983-7988 (1994)
JE	CQ	Nielsen, "Design of Sequence-Specific DNA-Binding Ligands," <u>Chem. Eur. J.</u> 3:505-508 (1997)
JE	CR	Oakley et al., "Evidence That a Minor Groove-Binding Peptide and a Major Groove-Binding Protein Can Simultaneously Occupy a Common Site on DNA," <u>Biochemistry</u> 31:10969-10975 (1992)
JE	CS	Oakley et al., "Structural Motif of the GCN4 DNA Binding Domain Characterized by Affinity Cleaving," <u>Science</u> 248:847-850 (1989)
JE	CT	Paoletta et al., "DNA Targets for Certain bZIP Proteins Distinguished by an Intrinsic Bend," <u>Science</u> 264:1130-1133 (1994)
JE	CU	Park et al., "Drug binding to higher ordered DNA structures: Netropsin complexation with a nucleic acid triple helix," <u>Proc. Natl. Acad. Sci.</u> 89:6653-6657 (1992)
JE	CV	Parks et al., "Simultaneous Binding of a Polyamide Dimer and an oligonucleotide in the Minor and major Grooves of DNA," <u>Bioorganic & Medicinal Chemistry</u> 4:1045-1050 (1996)
JE	CW	Parvin et al. "Pre-bending of a promoter sequence enhances affinity for the TATA-binding factor," <u>Nature</u> 373:724-727 (1995)
JE	CX	Pelton, "Structural characterization of a 2:1 distamycin A-d(CGCAAATTGGC) complex by two-dimensional NMR," <u>Proc. Natl. Acad. Sci.</u> 86:5723-5727 (1989)
JE	CY	Pelton and Wemmer, "Binding Modes of Distamycin A with d(CGCAAATTTGCG) ₂ Determined by Two-Dimensional NMR," <u>J. Am. Chem. Soc.</u> 112:1393-1399 (1990)
JE	CZ	Philpott et al., "Screening of Charged Electrodes in Aqueous Electrolytes," <u>J. Electrochem. Soc.</u> 142:L25-L28 (1995)
JE	DA	Perez-Martin et al., "Promoters Responsive to DNA Bending: a Common Theme in Prokaryotic Gene Expression," <u>Microbiological Reviews</u> 58:268-290 (1994)
JE	DB	Rice et al., "Crystal Structure of an IHF-DNA Complex: A Protein-Induced DNA U-Turn," <u>Cell</u> 87:1295-1306 (1996)

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JE	DC	Sambrook and Maniatis., <u>Molecular Cloning: A Laboratory Manual</u> , 2 nd Edition, Cold Spring Harbor Laboratory Press (1989) (TABLE OF CONTENTS - ALL THREE VOLUMES)
JE	DD	Sarma, eds., "The Origins of the DNA Binding Affinity and Specificity of Minor Groove Directed ligands: Correlations of Thermodynamic and Structural Data," <u>Structure and Expression Volume 2: DNA and its Drug Complexes</u> pp. 273-290
JE	DE	Sluka et al., "Importance of Minor-Groove Contacts for Recognition of DNA by the Binding Domain of Hin Recombinase," <u>Biochemistry</u> 29:6551-6561 (1990)
JE	DF	Steitz, "Structural studies of protein-nucleic acid interaction: the sources of sequence-specific binding," <u>Quart. Rev. Biophys.</u> 23:205-280 (1990)
JE	DG	Strauss et al., "DNA Bending by Asymmetric Phosphate Neutralization," <u>Science</u> 266:1829-1834 (1994)
JE	DH	Swalley et al., "Discrimination of 5'-GGGG-3', 5'-GCGC-3', and 5'-GGCC-3' Sequences in the Minor Groove of DNA by Eight-Ring Hairpin Polyamides," <u>J. Am. Chem. Soc.</u> 119:6953-6961 (1997)
JE	DI	Thuong et al., "Sequence-Specific Recognition and Modification of Double-Helical DNA by Oligonucleotides," <u>Angew. Chem. Int. Ed. Engl.</u> 32:666-690 (1993)
JE	DJ	Trauger et al., "Recognition of DNA by designed ligands at subnanomolar concentrations," <u>Nature</u> 382:559-561 (1996)
JE	DK	Turner et al., "Recognition of Seven Base Pair Sequences in the Minor Groove of DNA by Ten-Ring Pyrrole-Imidazole Polyamide Hairpins," <u>J. Am. Chem. Soc.</u> 119:7636-7644 (1997)
JE	DL	Wade et al., "Binding Affinities of Synthetic Peptides, Pyridine-2-carboxamidonetropsin and 1-Methylimidazole-2-carboxamidonetropsin, That Form 2:1 Complexes in the Minor Groove of Double-Helical DNA," <u>Biochemistry</u> 32:11385-11389 (1993)
JE	DM	Wade et al., "Design of Peptides That Bind in the Minor Groove of DNA at 5'-(A,T)G(A,T)C(A,T)-3' Sequences by a Dimeric Side-by-Side Motif," <u>J. Am. Chem. Soc.</u> 114:8783-8794 (1992)
JE	DN	White et al., "Effects of the A-T/T-A Degeneracy of Pyrrole-Imidazole Polyamide Recognition in the Minor Groove of DNA," <u>Biochemistry</u> 35:12532-12537 (1996)
JE	DO	White et al., "On the pairing rules for recognition in the minor groove of DNA by pyrrole-imidazole polyamides," <u>Chemistry & Biology</u> 4(8):569-578 (1997)
JE	DP	White et al., "Orientation Preferences of Pyrrole-Imidazole Polyamides in the Minor Groove of DNA," <u>J. Am. Chem. Soc.</u> 119:8756-8765 (1997)

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